IN THE CLAIMS:

Please amend the claims as follows.

Claim 1 (Currently Amended): An electron emitting device having comprising a lower

electrode near a substrate and an upper electrode far from the substrate respectively, formed of a

plurality of electron emitting elements which emit electrons from a side of the upper electrode,

characterized-in-that

wherein the electron emitting elements are made independent and in that space is formed

therebetween, and in that

wherein the upper electrode extends across the plurality of electron emitting elements and

the space by a bridging portion of the upper electrode, and

wherein the bridging portion is provided with at least one through hole or notched

portion.

Claim 2 (Canceled).

Claim 3 (Currently Amended): The electron emitting device according to claim [[2]] 1,

wherein the through hole or notched portion is circular-shaped, rectangular-shaped, diamond-

shaped, barrel-shaped, star-shaped, shoulder drum shaped, or a shape formed of part of these

shapes.

Claim 4 (Currently Amended): The electron emitting device according to claim 1,

wherein the bridge bridging portion extends approximately parallel to the substrate.

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Claim 5 (Currently Amended): The electron emitting device according to claim 1,

wherein both the lower electrode, and the upper electrode connected at the bridge bridging

portions are stripe shaped electrodes arranged in positions that are mutually orthogonal.

Claim 6 (Currently Amended): The electron emitting device according to claim 1,

wherein the upper electrode extends over a plurality of electron emitting elements and spaces by

the bridge bridging portions without the electron emitting elements being limited to the row or

column directions, and the lower electrode is separated and independent for each electron

emitting element.

Claim 7 (Original): The electron emitting device according to claim 5 or claim 6,

wherein the electron emitting elements further comprise an insulator layer and an electron supply

layer made from a semiconductor deposited between the lower electrode and the upper electrode,

and when a voltage is applied between the lower electrode and the upper electrode electrons are

emitted from the upper electrode.

Claim 8 (Currently Amended): The electron emitting device according to claim 7,

wherein the bridge bridging portion comprises the material of the insulator layer that is integral

with the insulator layer of the electron emitting element.

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Claim 9 (Previously Presented): The electron emitting device according to claim 1,

wherein the electron supply layer is made from an amorphous phase that comprises silicon or a

mixture or compound whose main component is silicon.

Claim 10 (Previously Presented): The electron emitting device according to claim 1,

further comprising at least one electron emitting section formed from an island area in which the

film thickness of the insulator layer and the upper electrode gradually decrease towards the

electron supply layer.

Claim 11 (Original): The electron emitting device according to claim 10, wherein in the

island areas the upper electrode terminates on the insulator layer.

Claim 12 (Original): The electron emitting device according to claim 10 or claim 11,

wherein in the island areas the insulator layer terminates on the electron supply layer.

Claim 13 (Previously Presented): The electron emitting device according to claim 10,

wherein the island areas are depressions in the flat surface of the upper electrode.

Claim 14 (Previously Presented): The electron emitting device according to claim 10,

wherein the insulator layer is made from dielectric material, and a part other than the island areas

has a film thickness of 50 nm or greater.

Claim 15 (Previously Presented): The electron emitting device according to claim 10, wherein electrically insulating masks are provided in the island areas.

Claim 16 (Previously Presented): The electron emitting device according to claim 10, wherein a carbon area comprising carbon or a mixture with carbon as a component or a carbon compound is provided in the top, bottom, or middle of the island areas.

Claim 17 (Currently Amended): A method of manufacturing an electron emitting device having a lower electrode near a substrate and an upper electrode far from the substrate respectively, formed of a plurality of electron emitting elements which emit electrons from a side of the upper electrode, with space being formed between the electron emitting elements, and the upper electrode being extending across the plurality of electron emitting elements and the space by a bridging portion of the upper electrode, the method eharacterized by comprising:

an electron emitting section forming step of forming a laminated body on which an upper electrode material layer is deposited to form a plurality of electron emitting elements on a substrate;

a bridge forming step of forming a plurality of bridge bridging portions provided with at least one through hole or notch along a line that separates the plurality of electron emitting elements by etching the upper electrode material layer;

a cutting step of etching part of the exposed insulator layer by anisotropic etching, and either etching the substrate and lower electrode, or in subsequently carried out isotropic etching, etching the substrate and the lower electrode as far as the part that can be exposed, using the bridge bridging portions as a mask; and

a separating step of separating the exposed part of the insulator layer into the plurality of electron emitting elements by etching by isotropic etching to enlarge the space using the bridge bridging portions as a mask.

Claim 18 (Original): The method of manufacturing an electron emitting element according to claim 17, wherein in the cutting step mixed gas comprising CH₂F₂, SF₆, Cl₂ is brought into contact with the exposed part of the insulator layer.

Claim 19 (Original): The method of manufacturing an electron emitting element according to claim 17 or 18, wherein in the separating step mixed gas comprising CF4 is brought into contact with the exposed part of the insulator layer.

Claim 20 (Previously Presented): The method of manufacturing an electron emitting element according to claim 17, wherein the electron emitting section forming step comprises:

an electron supply layer forming step of forming an electron supply layer comprising silicon or a mixture whose main component is silicon or a silicon compound on the substrate;

a mask forming step of forming a mask that forms a canopy around the portion in contact with the electron supply layer on the electron supply layer;

an insulator layer forming step of forming an insulator layer formed from a thin film of insulation material by depositing insulation material on the electron supply layer and the mask, so that around the part in contact with the mask the film thickness of the insulator layer gradually decreases to form at least one island area; and

an upper electrode forming step of forming a film of the upper electrode on the insulator

layer to form the island area as an electron emitting section.

Claim 21 (Original): The method of manufacturing according to claim 20, further

comprising a carbon area forming step of forming a carbon area comprising carbon or a mixture

with carbon as a component or a carbon compound in the top, bottom, or middle of the island

areas.

Claim 22 (Currently Amended): The electron emitting device according to claim 20 or

claim 21, wherein in the bridge forming step the upper electrode and the insulator layer are

etched by the isotropic etching method to form bridge bridging portions including the material

part of the insulator layer integral with the insulator layers and upper electrodes of adjacent

electron emitting elements, in the through holes or notches bridge bridging portions are formed

including the material part of the insulator layer, and a canopy-shaped structure made from the

material of the insulator layer is formed in the through holes or notches projecting towards the

center of the through holes or the inside of the notches.

Claim 23 (Previously Presented): The method of manufacturing according to claim 20,

wherein the masks are micro masks comprising a support portion that project in a direction

normal to the substrate and a main mask that projects in a direction parallel to the substrate from

the support portion, and the mask forming step comprises the steps of:

forming a support portion material layer and a main mask material layer on the substrate;

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forming a resist mask thereon by photolithography so that at least part of the electron supply layer is exposed; and

etching the main mask and the support portion in that order by the dry etching method

and the wet etching method to form the micro masks.

Claim 24 (Previously Presented): An imaging element, comprising:

an electron emitting device according to claim 1;

a photoelectric conversion film approximately parallel to and opposed to the upper

electrode and enclosing a vacuum space;

an optically transparent electrically conducting film deposited on the photoelectric

conversion film; and

an optically transparent front substrate that supports the photoelectric conversion film and

the optically transparent electrically conducting film.

Claim 25 (Original): The imaging element according to claim 24, further comprising a

mesh electrode arranged within the vacuum so as to not contact the electron emitting device of

the photoelectric conversion film.

Claim 26 (Previously Presented): A display device comprising:

an electron emitting device according to claim 1; and

an optically transparent front substrate in opposition to the upper electrode and enclosing

a vacuum space, with a fluorescent layer arranged on the surface on the side of the vacuum

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space, and a collector electrode formed on the fluorescent layer and in opposition to the upper electrode.

Claim 27 (Original): The display device according to claim 26, having an image display array comprising a plurality of light emitters corresponding to the fluorescent layer.